

ESF Exploratory Multidisciplinary Workshop on

PAIN & SUFFERING

Luxembourg (Luxembourg), 13-14 November 2009

Convened by:

BUSTAN Smadar^① and KERR Catherine^②

① Department of Philosophy, University of Luxembourg, Luxembourg

② Osher Research Center, Harvard Medical School, USA

Co-sponsored by



The European Science Foundation (ESF) is an association of 80 Member Organisations devoted to scientific research in 30 European countries. The Mission of ESF is to provide a common platform for its Member Organisations in order to advance European research and to explore new directions for research at the European level. Through its activities, the ESF serves the needs of the European research community in a global context.

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The Exploratory Workshops scheme is one of the key instruments of the Science Strategy "pillar". Each year, ESF supports approximately 50 Exploratory Workshops across all scientific domains. The focus of the scheme is on workshops aiming to explore an emerging and/or innovative field of research or research infrastructure, also of interdisciplinary character. Workshops are expected to open up new directions in research or new domains. It is expected that a workshop will conclude with plans for specific follow-up research activities and/or collaborative actions or other specific outputs either within the frame of ESF (e.g. prepare the ground to develop a [Forward Look](#), a [Research Networking Programme](#) or a [EUROCORES](#) proposal; publication of a Policy Briefing...) or for submission to the EU 7th Framework Programme or to other European or international funding organisations.

European Science Foundation

1 quai Lezay Marnésia
BP 90015
67080 Strasbourg Cedex
France
Fax: +33 (0)3 88 37 05 32
<http://www.esf.org>

ESF Exploratory Workshops:

Farzam Ranjbaran
Scientific Coordinator

Valerie Allspach-Kiechel
Senior Administrator
Tel: +33 (0)3 88 76 71 36

Isabelle May
Administrator
Tel: +33 (0)3 88 76 71 46

Email: ew-office@esf.org
<http://www.esf.org/workshops>

Convenor:

Dr. BUSTAN Smadar
smadyil@gmail.com

IPSE, University of Luxembourg
Campus de Walferdange
Route de Diekirch
7220 WALFERDANGE
Luxembourg

Co-convenors:

Dr. KERR Catherine
catherine_kerr@hms.harvard.edu

Osher Research Center
Harvard Medical School
401 Park Dr, Suite 22A
Boston, MA 02215
USA

Local Organiser:

BASELLO Christine
christine.basello@uni.lu
Tel: +352 466644 9637
Fax: +352 466644 6348

Secretary of IPSE Research Unit
University of Luxembourg
Campus de Walferdange
Route de Diekirch
7220 WALFERDANGE
Luxembourg

Main Objectives of the Workshop:

To set the ground for a long-term interdisciplinary and international working group on Pain and Suffering.

This project is timely, and has a multidisciplinary vocation. In particular, it will bring together figures from numerous fields, including humanities, biomedical, and natural sciences, for a constructive interaction on the topic. Suffering is an ubiquitous experience with no universally accepted theoretical framework for its understanding. Scholars working in single disciplines offer one-dimensional accounts. Instead, we would like to drive an interdisciplinary approach combining both theoretical and experimental work, to fill the gap that exists to date.

More in Detail:

Multidisciplinary Workshop on Suffering and Pain

We might all agree that suffering is a real, universally experienced, ubiquitous phenomenon. Yet we do not have a shared understanding of what it is about suffering that is most real. There is no consensus, perhaps because suffering expresses itself in so many ways: both in the body and the brain (where various forms of suffering have been linked to disease, illness and pain), individually and collectively, subjectively and objectively. Simply put, there is no single universally accepted external reference point for the experience of suffering.

While scholars situated in single disciplines such as literature, clinical medicine, philosophy and anthropology have offered generalized accounts of human (and also animal) suffering, an inter and multi-disciplinary effort is required to develop a more integrative account of the phenomenon. For example, recent studies in medicine, clinical psychology and neuroscience have given a more elaborated description of a state of suffering known as *secondary alexthymia* (alexithymia is from the Greek meaning "no words for feelings"). This state often visits itself on persons with cancer, diabetes or Parkinsons' disease, and is detected disproportionately among victims of rape, political

violence, or other types of trauma. Yet these quantitative studies do not provide enough insight into the nature of the phenomenon to bridge the gaps between external and objective assessments of suffering, and the felt experience of suffering. How do we know whether a person is experiencing real suffering if they cannot communicate that they are suffering? Quantitative disciplines alone cannot answer these questions. But if contemporary phenomenological theories of suffering are considered alongside the medical and neuroscientific research - including theories regarding the inexpressibility of pain (cf., Scarry, *Body in Pain*)-, their combined explanations would show that this inability to narrate or describe may be an essential attribute of what acute suffering is all about.

There are other divides related to the question of suffering that arise from divergences between sciences and humanities, including their radically different tools for approaching the problem. Indeed, there is even a divide between the science of medicine and the practice of medical clinicians working to relieve pain. The duality between experiencing and validating is central to the question of suffering. But the varied methods among different scholarly disciplines have actually made it difficult to bring into light this central problem because of the apparent requirement of each discipline to choose between the internal vs. the external, the subjective vs. the objective and the felt vs. the inferred. In the exploratory workshop proposed here, we will take on several of these divides, including those between a phenomenological philosophy and science, between therapeutic practice and clinical science, and between Continental and Anglo-American views on the ethics of human suffering. This multidisciplinary initiative seeks to integrate all aspects into a general discussion about the nature and implications of the topic.

Our aim is to establish the basis for interactions among scientists and scholars that will lead to seminal collaborative projects and a *long-term European multidisciplinary working group* on the subject of Pain and Suffering. The ESF Workshop and subsequent follow-up research is to include leading philosophers, literary scholars, sociologists, medical researchers and neuroscientists from different European Universities and Institutes, while opening to other international efforts. The Workshop will bring together these disciplines for a constructive and enriching dialogue, to seek not just meeting points and moments of agreement, but also of contention. We do not intend the outcome of the Workshop to be a consensus on different topics, but expect the participants to broaden their understanding and knowledge as different areas of expertise approach the same subject. This is also necessary to identify new paths and outlooks for future innovative work and breakthroughs.

Working Plan:

The immediate outcome (within 3 years) of this project will be **an integrative publication** synthesizing several models on Suffering and Pain. This oeuvre would be a reference tool for all disciplines (medical corps, psychologists, philosophers, sociologists, neuroscientists etc), exposing the connections and the divides related to the question of suffering that arise from divergences between sciences and humanities, including their radically different approaches to the problem. **An Internet Site** is planned for the meeting, presenting the project and its goals, and serving as a working/communication tool for the group.

In the Long term This meeting will start a 5-year collaborative project, establishing a core of research to be carried out by the participants. The success of this effort requires a continued commitment. Specifically, we intend to develop a **Forward Look** to future collaboration between humanities and sciences by identifying outstanding and unaddressed problems, and tackling them with, among others, a network of experiments carried out by the collaborators (Luxembourg, Sweden, Germany, USA).

Follow up meetings are planned for 2010 and a weeklong meeting in summer 2011.

PROGRAMME

Please note:

- The time length of group talks varies between 1h and 1h30 followed by a 30 minutes discussion
- The time length of individual talks is 35 min, followed by a 25 min discussion.
- All talks will be delivered in English. One talk is programmed for a delivery in French and a translated version of the talk's text will be handed to the participants at the meeting. All discussions and questions will be carried out in English.

Thursday, 12 November 2009

Evening *Arrival*

19:30 **Welcome by Dean Michel Margue** (University of Luxembourg)
Reception Dinner, Hotel Novotel Center (mezzanine)

Friday, 13 November 2009

08.50 **Train**

09.10 –09.20 **Welcome by the convenors**

09.20 -09.40 **Presentation of the European Science Foundation (ESF)**
Eva HOOGLAND ESF Standing Committee for the Humanities (SCH)

09.40-10.20 **Two min. introduction of each participant by him or herself**

10.20-17.00 **First Session: On The Phenomena of Suffering and Pain (7 speakers). Chair: Nicolas DANZIGER**
A dialogue between Neuroscience, Phenomenology and Psychology

Underlying thread: is there a continuum between pain and suffering and how do we identify it?

10.20-10.35 *Coffee / Tea Break*

10.35-11.35 **Presentation 1 "Pain, suffering and hurt – A multidimensional psychobiological perspective".**
Fernand ANTON & Gilles MICHAUX (Research Unit INSIDE, University of Luxembourg, Luxembourg)

Followed by 30 min **Discussion**

12.05-13.30 **Presentation 2 "Pain and suffering from a sensorimotor perspective"**
Yoshi NAKAMURA (Utah Center for Exploring Mind-Body Interactions, University of Utah, Salt Lake City, USA), **Kevin O'REGAN** (Laboratory of Psychology of Perception, University of Paris Descartes, Paris, France) & **Eric MYIN** (Department of Philosophy, University of Antwerpen, Belgium)

Followed by 30 min **Discussion**

14.00-14.45 *Lunch*

14.45-15.45 **Presentation 3 "Feeling without awareness: converging neuroscientific and phenomenological approaches to acute Suffering"**
Smadar BUSTAN (Philosophy Department, University of Luxembourg,

-
- Luxembourg) & **Catherine KERR** (Osher Research Center, Harvard Medical School, Boston, USA)
- Followed by 30 min **Discussion**
- 16.15-16.30 *Coffee / tea break*
- 16.30-18.45** **Second Session: The lived suffering and Pain - Establishing lines of communication. Chair: Otniel DROR**
A dialogue between Biomedicine, Psychology and Philosophy
- Underlying thread: When the social and cultural context is no longer eliminated and we no longer think on the phenomena on their own, in an almost "hermetically sealed" manner, how do we conceive of pain and suffering? Furthermore, how do we relate to the pain and suffering of the other?***
- 16.30-17.05 **Presentation 1 "Pain and Suffering - insights from the brain"**
Predrag PETROVIC (Karolinska Hospital, Stockholm, Sweden)
- Followed by 25 min **Discussion**
- 17.30-18.05 **Presentation 2 "The effect of the Other on the Sufferer – The positive role (therapy)"**
Hillel BRAUDE (Biomedical Ethics Unit, McGill University, Montreal, Canada)
- Followed by 25 min **Discussion**
- 19.01** **Train**
- 20.00 *Dinner at the Novotel Center*
- Saturday, 14 November 2009**
- 09.20** **Train**
- 09.40-10.15 **Presentation 3 "Babies, the unvoiced cases of suffering and the consequence for practitioners"**
Denis MELLIER (Department of Psychology, University of France-Compté, Besancon, France)
- Followed by 25 min **Discussion**
- 10.40-11.00 *Coffee / Tea Break*
- 11.00-13.50** **Third Session: Suffering in the social, political and cultural dimensions - moving beyond the individual. Chair: Gilles BENDELOW**
A dialogue between Sociology, Political and Moral Philosophy
- Underlying thread: How the aspiration for objectivity and quantification is integrated in the collective sphere? Can we find parallel expressions linking the social and political realm to the mind and body experience?***
- 11.00-11.35 **Presentation 1 "Social Suffering: A new understanding and emergent form of social practice"**
Iain WILLKINSON (School of Social Policy, Sociology and Social Research, University of Kent, Canterbury, UK)
- Followed by 25 min **Discussion**
- 12.00-12.35 **Presentation 2 "Moral Suffering: variations of suffering in light of different contextual pressures"**
Lambros COULOUBARITSIS (Department of Philosophy & Religion Sciences, Free University of Brussels, Brussels, Belgium)

	Followed by 25 min Discussion
13.00-13.35	Presentation 3 "Political View: on Suffering, Memory and Time" Cindy HALPERN (Department of Political Science, Swarthmore College, Swarthmore, USA) Followed by 25 min Discussion
14.00-15.00	<i>Lunch</i>
15.00-18.00	Fourth Session: Chairs: Smadar BUSTAN & Catherine KERR Plenary session on follow-up activities/networking/collaboration <ol style="list-style-type: none">1. What did the scientists learn from the humanities/social sciences and vice versa? (1 hour)2. Break up into sub-groups of scientists/humanities to determine future research according to the necessities of each field (1 hour)3. Merging: decide together on an overview of future collaboration and working plan (1 hour)
16.00-16.30	<i>Coffee / Tea Available during the session</i>
18.00	<i>End of Workshop</i>
18.31	Train
19.00	<i>Dinner at the Grand Hotel Mercure Alfa Luxembourg</i>

Sunday, 15 November 2009

Morning *Departure*

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Objectives of the ESF Standing Committee for European Medical Research Councils (EMRC)

The **ESF Standing Committee for the European Medical Research Councils (EMRC)** has overall responsibility for initiating and coordinating ESF's scientific activities in medical sciences and for providing expert advice on issues of science policy. It covers a broad range of disciplines and the Committee's main objectives range from promoting interactions between the biomedical and clinical research communities, through providing policy advice, to stimulating collaboration in emerging research areas.

The EMRC covers fields such as:

- Diagnostic and therapeutic medicine
- Neurobiology
- Immunology
- Clinical studies
- Communicable diseases
- Human genetics & functional genomics
- Medicinal biotechnology
- Public Health, etc.

ESF Medical Sciences:

Carole Moquin-Pathey
Head of Unit

Thomas Bruhn
Science Officer

Julien Weber
Senior Administrator

Blanche Schaller
Administrator

Tel: +33 (0)3 88 76 71 18

Email: emrc@esf.org

<http://www.esf.org/emrc>

Objectives of the ESF Standing Committee for the Humanities (SCH)

The main tasks of the **ESF Standing Committee for the Humanities (SCH)** are:

- to encourage interdisciplinary work through the independent evaluation of collaborative research proposals emanating from the scholarly community;
- to identify priority research areas and to play an integrative and co-ordinating role by creating links between research communities which in the Humanities are often small and fragmented.
- to contribute to the development of the ESF science policy agenda and to provide expert advice on science policy actions at the European level in the field of its responsibilities.

The Committee is well aware that the ESF is the only European Agency where the Humanities have a place next to the other sciences and where European projects are reviewed, developed and subsequently operated.

The Committee considers it all the more important to be heard as the voice of the Human Sciences in Europe and to continue pleading for a more prominent place for the Humanities in the European landscape.

ESF Humanities Unit:

**Nina
Kancewicz-Hofman**
Head of
Unit

Irma Vogel
Senior Administrator

Marie Suchanova
Administrator

Tel: +33 (0)3 88 76 71 83

Email:

humanities@esf.org

<http://www.esf.org/human>

ESF Exploratory Workshops

List of Participants

1. Dr. Smadar Bustan – convenor
2. Dr. Catherine Kerr – co-convenor
3. Dr. Eva Hoogland - ESF representative - SCH
4. Prof. Fernand Anton
5. Prof Gillian Bendelow
6. Dr. Hillel Braude
7. Prof. Esther Cohen
8. Prof. Lambros Couloubaritsis
9. Dr. Nicolas Danziger
10. Prof. Isabel Maria da Cunha Rosa Fernandes
11. Dr. Cindy Halpern
12. Dr Paul Harrison
13. Dr. Karin B. Jensen
14. Dr. Sandra Kamping
15. Cecilia Beecher Martins
16. Prof. Denis Mellier
17. Dr. Gilles Michaux
18. Dr. Eric Myin
19. Dr. Yoshi Nakamura
20. Dr. Kevin O'Regan
21. Dr. Dror Othniel
22. Dr. Predrag Petrovic
23. Anouk Streff
24. Dr. Claudia Wassmann
25. Dr. Iain Wilkinson
26. Camila Valenzuela

ESF Exploratory Workshops

Convenor:

1. **Dr. Smadar BUSTAN**
Philosophy Department
University of Luxembourg
Faculty of Language and Literature (IPSE)
Campus Walferdange
Route de Diekirch / B.P. 2
L-7220 Walferdange
Luxembourg
Tel. 00352 46 66 44 9520
smadyil@gmail.com

Co-Convenor:

2. **Dr. Catherine Kerr**
Instructor
Osher Research Center
Harvard Medical School
401 Park Dr, Suite 22A
Boston, MA 02215
USA
catherine_kerr@hms.harvard.edu

ESF Representative:

3. **Dr. Eva Hoogland**
ESF representative
EUROCORES Coordinator for the Cognitive Sciences
European Science Foundation
1, quai Lezay Marnésia F-67080 Strasbourg France
+33 (0)3 88 76 2183
ehoogland@esf.org

Participants:

4. **Prof. Fernand ANTON**
Director
Research unit INSIDE: "Stress and stress-related health problems"
University of Luxembourg, Campus Limpertsberg
162 , avenue de la Faïencerie
L-1511 Luxembourg
Luxembourg
fernand.anton@uni.lu
5. **Prof. Gilles BENDELOW**
Head of Department
Department of Sociology
University of Sussex
Falmer Campus
Brighton BN1 9SN
UK
G.A.Bendelow@sussex.ac.uk
6. **Dr. Hillel BRAUDE**
Biomedical Ethics Unit
Faculty of Medicine, McGill University
3647 Peel Street
H3A 1X1, QC, Montreal
Canada
hillel.braude@mail.mcgill.ca
7. **Prof. Esther COHEN**
Department of History

Research Fellow, Scholion Center
 Scholion Center
 Rabing Building
 Hebrew University
 Jerusalem 95105
 Israel
msecohen@mscc.huji.ac.il

8. Prof. Lambros Couloubaritsis

Département de Philosophie et des sciences religieuses
 CP 175/1
 50 Av. Roosevelt
 B 1050 Bruxelles
 Belgique
ousia@swing.be

9. Dr. Nicolas DANZIGER

Département de Physiologie
 Faculté de Médecine Pitié-Salpêtrière
 91 Bd de l'Hôpital
 75013 Paris
 France
nicolas.danziger@psl.aphp.fr

10. Dr. Otniel DROR

History of Medicine
 The Hebrew University of Jerusalem
 The Medical Faculty of the Hebrew University of Jerusalem
 P.O. Box 12272
 Jerusalem, 91120
 Israel
otniel@ekmd.huji.ac.il

11. Prof. Isabel Maria da Cunha Rosa Fernandes

Centro de Estudos Anglisticos da Universidade de Lisboa
 Faculdade de Letras da Universidade de Lisboa
 Alameda da Universidade
 1600-214 Lisboa
 Portugal
isacrfernandes@sapo.pt

12. Prof. Cynthia Halpern

Chair Department of Political Science
 Swarthmore College
 Swarthmore, PA 19081
 USA
chalper1@swarthmore.edu

13. Dr. Paul HARRISON

Department of Geography
 Durham University
 Science Laboratories
 South Road
 Durham, DH1 3LE
 UK
paul.harrison@durham.ac.uk

ESF Exploratory Workshops

14. Dr. Karin JENSEN

Department of clinical neuroscience
Karolinska Institutet
MR-centrum, N8
Karolinska Sjukhuset
171 76 Stockholm
Sweden
Karin.B.Jensen@ki.se

15. Sandra KAMPING

Department of Cognitive and Clinical Neuroscience
Central Institute of Mental Health
Square J 5
68159 Mannheim
Germany
sandra.kamping@zi-mannheim.de

16. Cecilia Beecher Martins

Instituto de Novas Profissões
Campus Universitário da Ameixoeira
Rua Vitorino Nemésio, 5
1750-306 Lisboa
Portugal
cbeechermartins@gmail.com

17. Prof. Denis MELLIER

Department of Psychology
Université de Franche-Comté
UFR SLHS
30 rue Mégevand
25000 BESANCON
FRANCE
denis.mellier@univ-fcomte.fr

18. Dr. Gilles MICHAUX

University of Luxembourg
Campus Limpertsberg
BC 3.03A
162A, avenue de la Faïencerie
L-1511 Luxembourgsea
Luxembourg
gilles.michaux@uni.lu

19. Dr. Erik MYIN

Associate Professor
Departement of Philosophy
Universiteit Antwerpen
Stadscampus - SD416
Prinsstraat 13
2000 Antwerpen
BELGIUM
Erik.Myin@ua.ac.be

20. Dr. Yoshio NAKAMURA

Director
Utah Center for Exploring Mind-Body Interactions (UCEMBI)
Pain Research Center

ESF Exploratory Workshops

Department of Anesthesiology
University of Utah School of Medicine
615 Arapeen Drive, Suite 200
Salt Lake City, UT 84108
U.S.A.
yoshi.nakamura@utah.edu

21. Dr. Kevin O'REGAN

Director
Laboratory of Psychology of Perception
CNRS - University of Paris Descartes
Centre Biomédical des Saints Pères
45 rue des Sts Pères
75270 Paris cedex 06
France
jkevin.oregan@gmail.com

22. Dr. Predrag PETROVIC

MR-Centrum, N8:00
Karolinska Hospital
171 76 Stockholm
Sweden
Predrag.Petrovic@ki.se

23. Anouk STREFF

Laboratoire de Psychophysiology
Université du Luxembourg
162a, avenue de la Faïencerie
L-1511 Luxembourg
anouk.streff@uni.lu

24. Dr. Claudia WASSMANN

Kliniken Maria Hilf GmbH
Akademisches Lehrkrankenhaus der RWTH Aachen Station D2
Kamillianerstr. 40-42
41069 Mönchengladbach
Germany
cwassman@alumni.uchicago.edu

25. Dr. Iain WILKINSON

Director of CPHSJ School of Social Policy, Sociology and Social Research (SSPSSR)
University of Kent,
Canterbury,
UK, CT2 7NZ
i.m.wilkinson@kent.ac.uk

26. Camila Valenzuela

Laboratoire Psychologie de la Perception CNRS
University Paris Descartes
45 Rue de Saints Pères
75006 Paris France
camilavalenzuelamoqui@gmail.com

ESF Exploratory Workshops

Convenor:**1. Dr. Smadar BUSTAN***University of Luxembourg*

PhD in philosophy & Co-founder of the *Interdisciplinary Working Group on Suffering and Pain* (Harvard. Feb. 2008). She has published articles on German phenomenology, French contemporary philosophy and more recently, on the possible bridge between Continental and American philosophies. She has translated and prefaced three books by Levinas, Marion and Blanchot. Her publications on suffering and pain touch upon the ethical, political and phenomenological aspects. The project on suffering is a long-term research plan, underlying her thesis on pre-reflectivity, the conductive thread of a planned trilogy: The first book in ethics (PhD dissertation) is due in 2010 (ed. *Connaissance et Savoir*). The second book demonstrates the role of pre-reflectivity in the social and political domains. The third book, a treaty on suffering and pain, intends to show a post-phenomenological way of linking the body and the mind.

Co-Convenor:**2. Dr. Catherine Kerr***Harvard University, USA*

Catherine Kerr (Harvard Medical School) is a neuroscientist who investigates the effects of meditation and the placebo effect on millisecond-by-millisecond changes in cortical dynamic regulation. More broadly, she is interested in understanding how changes in cortical dynamic brain states (especially in cortical circuits related to body feeling perception [S1, S2 and insula] and self-processing [midline structures]) relate to chronic pain, mood, health and well-being. Her original training as a historian (PhD, Johns Hopkins University) motivates her conviction that humanists and social scientists must become more involved in discussions of brain, mind and self that have emerged from recent neuroscientific research.

ESF Representative:**2. Dr. Eva HOOGLAND***ESF, France*

Research Policy

Participants:**4. Prof. Fernand ANTON***University of Luxembourg*

MD, PhD. Habil.

Professor of psychobiology and neurophysiology. *Faculté des lettres, des sciences humaines, des arts et des sciences de l'éducation. Unité de recherche INSIDE.* Expertise in psychobiological and neurophysiological pain research. His main research interest is the impact of stress and altered stress hormone levels on pain sensitivity and the development of chronic pain. He is performing studies in humans and in animal models.

5. Prof. Gilles BENDELOW*University of Sussex, UK*

Gillian Bendelow is Professor of Sociology at the University of Sussex, UK and is an executive officer of the British Sociological Association Medical Sociology Committee. Her research is centrally located in health inequalities and lay understandings of health and illness, with particular expertise in sociocultural approaches to embodiment and pain. She is author of *Pain and Gender* (2000) and *Health Emotion and the Body* (2009), co-author of *The Lived Body* (1998) and many journal articles.

6. Dr. Hillel BRAUDE*McGill University, Canada*

MD, PhD. Hillel Braude is a medically trained doctor, clinical ethicist and philosopher. He is presently a postdoctoral fellow in neuroethics with the University of McGill's Biomedical Ethics Unit. He serves as a consultant clinical ethicist at the Jewish General Hospital in Montreal and to the Raz Laboratory at the Montreal Neurological Institute.

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7. Prof. Esther COHEN*Hebrew University, Israel*

Professor of Medieval History. Has published several articles on pain in the Middle Ages, and has recently completed a book, due to appear in March 2010 (University of Chicago Press), entitled *The Modulated Scream: Pain in Late Medieval Culture*.

8. Prof. Lambros COULOUBARITSIS*Free University of Brussels, Belgium*

Lambros Couloubaritsis is emeritus Professor at the University of Brussels (ULB), member of the Royal Academy of Belgium and doctor *honoris causa* of several universities (Oradea, Athens, Crete and Liège). He has published one hundred and eighty studies and five books: *La Physique d'Aristote* (Ousia, 1980, 1997²); *La pensée de Parménide* (Ousia, 1986, 2008³); *Aux origines de la philosophie européenne* (De Boeck, 1992, 2003⁴); *Histoire de la philosophie ancienne et médiévale* (Grasset, 1998); *La proximité et la question de la souffrance humaine / Proximity and the question of human suffering* (Ousia, 2005). Most recently, his research interests concern contemporary subjects, like suffering, violence and complexity.

9. Dr. Nicolas DANZIGER*Faculté de Médecine Pitié-Salpêtrière, France*

Nicolas Danziger, is MD, PhD. He teaches physiology at Paris VI Medical School and works as a neurologist in the Department of Clinical Neurophysiology and in the Pain Center in the Pitié-Salpêtrière Hospital. His research interests include the links between pain and body image and the mechanisms of the perception of others' pain.

10. Dr. Otniel DROR*The Hebrew University, Israel*

Otniel E. Dror, MD, PhD in History, is Joel Wilbush Chair of Medical Anthropology and Head of the Section for the History of Medicine at The Hebrew University of Jerusalem.

His area of expertise is the history of the life sciences and medicine during the nineteenth and twentieth centuries. His research focuses on the modern history of the scientific study of emotions and feelings, from circa 1850.

11. Prof. Isabel Maria da Cunha Rosa Fernandes*University of Lisbon, Portugal*

Professor Isabel Fernandes has developed work in the areas of Narratology and Literary Theory, aligning her approach to texts and to the reading act with the recent ethical orientation in literary criticism. Her work in these areas can be of help when transposed into other domains where the narrative act and its decoding are at stake, as in the case of the doctor/patient encounter.

She is the Scientific Coordinator of ULICES - University of Lisbon Centre for English Studies, and has recently started a multidisciplinary project on "Literature, Ethics and Healthcare - Stories of Illness and Healing" (Narrative Medicine).

12. Prof. Cynthia Halpern*Swarthmore College, USA*

Cynthia Halpern is the Chair of the Department of Political Science at Swarthmore College, Swarthmore, Pennsylvania. She is a Political Theorist by training, teaching Ancient/Modern Political Thought, Ethics and Public Policy. She writes on Nietzsche, Jung, Foucault, Arendt and Agamben. Her books: "Suffering, Politics, Power: a genealogy in Modern Political Thought" (SUNY Press, 2002) and "Teaching the Political Tasks of the Next Generation" - the book she is currently writing.

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13. Dr. Paul HARRISON*Durham University, UK*

Paul Harrison is a Human Geographer and Critical Theorist. His current research has three main themes. Firstly, the 'radically passive' or non-intentional nature of corporeal existence, (for example, vulnerability, susceptibility, suffering, lassitude and sleep), and the existential, ethical and political significance of these aspects of being a body. Secondly, an examination of the act of bearing witness or giving testimony to traumatic or so-called 'unspeakable'. Thirdly, and most recently, the figure of negativity in the social sciences.

14. Dr. Karin JENSEN*Karolinska Institutet, Sweden*

Karin Jensen is a clinical psychologist with a PhD in neuroscience, conducting neuroimaging studies in patients with chronic pain. Her research is focused on how pain is processed in the human brain.

15. Sandra KAMPING*Central Institute of Mental Health, Germany*

Sandra Kamping works in the lab of Prof. Flor in a post-doc position in a EU project that focuses on the assessment and analysis of the interrelationship various phantom phenomena such as phantom limb awareness and painful phantom sensation and looks at the neural correlates of these phenomena using functional magnetic resonance imaging and transcranial magnetic stimulation. Additionally she is working on a project that aims at a better understanding of the interplay of sensory, emotional and cognitive aspects of pain processing, in chronic pain patients (fibromyalgia) and persons with masochistic behavioral tendencies. She is also seeing patients as part of her advance training as a psychological psychotherapist.

16. Cecilia Beecher Martins*Campus Universitário da Azeiteira, Portugal*

Cecilia Martins is a Lecturer at the

University of Lisbon Centre for English Studies (Literature and Culture Studies Center). She is a PhD candidate working with Prof. Fernandes on the project of Narrative Medicine. She has been applying a quantitative approach to film analysis to investigate if exposure to film narrative can reduce anxiety levels in adolescents and young people. She has also been working with free associative film criticism to ascertain if this can reinforce consciousness of the narrative of self and increase awareness of unique identity themes as defined by Lichtenstein (1961).

17. Prof. Denis MELLIER*Université de Franche-Comté, France*

Professor of clinical psychology and psychopathology.

Having gained experience conducting infant observations at daycare, Professor Mellier developed and conducted extensive research in psychoanalysis of babies and in phenomenon of the non-verbal in groups and institutions.

18. Dr. Gilles MICHAUX*University of Luxembourg*

Dr. Psychology, Staff scientist
Faculty of Language and Literature, Humanities, Arts and Education (FLSHASE). Integrative Research Unit on Individual and Social Development (INSIDE). Laboratory of Psychobiology – Psychophysics and Psychophysiology
Professional training: Psychologist, Hypnotherapist, Relaxation trainer (Autogenic Training, Progressive Relaxation, Biofeedback, Stress inoculation techniques for children and adolescents). Teaching & Research interests: Psychophysiology and Psychophysics. In particular, mechanisms of the placebo response, associative and observational learning of pain, observer and expectancy effects in pain research. Stress inoculation.

19. Dr. Erik MYIN*Universiteit Antwerpen, Belgium*

Expertise: philosophy of cognitive science, philosophical psychology, philosophy of mind

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20. Dr. Yoshio NAKAMURA

*University of Utah School of Medicine
U.S.A.*

Expertise: pain measurement, placebo response, mind-body medicine, contemplative clinical science

21. Dr. Kevin O'REGAN

*CNRS - University of Paris Descartes,
France*

Expertise: visual perception, sensorimotor approach to consciousness

22. Dr. Predrag PETROVIC

Karolinska Hospital, Sweden

MD, PhD. Predrag Petrovic's expertise is in cognitive neuroscience of emotional and pain top-down regulation, as well as in expectation and placebo effects. He has mostly been working with functional imaging methods such as PET and fMRI. He is also a doctor specializing in psychiatry.

23. Anouk STREFF

*Univ. of Luxembourg
Psychophysiology*

24. Dr. Claudia WASSMANN

Kliniken Maria Hilf GmbH, Germany

MD, PhD. in History (University of Chicago). Her doctoral work analyzes the emergence of a "science of emotion." In particular, she studies the shifting conceptualization of emotion as developed by physiologists and experimental psychologists in late nineteenth-century Europe and the United States in a synchronic and diachronic perspective. One venue of her research is the interrelation of theoretical conceptions and techniques used in the scientific investigation of human emotion. Postdoctoral training at the NIH, to include contemporary research in emotion, especially psychiatric research (fear, anxiety, schizophrenia). Her research interests are now moving towards psychosomatic aspects of pain and neuropathic pain. She is also working as a doctor at the University Hospital of Aachen.

25. Dr. Iain WILKINSON

University of Kent, UK

Iain Wilkinson is a Senior Lecturer in Sociology in the School of Social Policy, Sociology and Social Research at the University of Kent, UK. He is also Director of the Centre for the Study of Philanthropy, Humanitarianism and Social Justice. His research interests concern social suffering, the politics of compassion, the sociology of health, the sociology of risk and social theory. His publications include, *Anxiety in a Risk Society* (Routledge 2001), *Suffering: A Sociological Introduction* (Polity 2005) and *Risk, Vulnerability and Everyday Life* (Routledge 2009).

26. Camila Valenzuela

University Paris Descartes, France

Camilla Valenzuela is a PhD candidate working at the lab of Kevin O'Regan. She studies the relationship between body awareness and the perception of pain. She focus on two components of body awareness: the sense of body ownership as the experience that our body belongs to us and the sense of perspective as the experienced spatiotemporal self-location of an individual. In her project she integrates two methodologies: an approach of experimental psychology and a first person approach.

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